UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/598,909	09/14/2006	Junkuan Wang	3712036.00753	1906
29157 K&L Gates LLI	7590 05/05/201 P	0	EXAM	IINER
P.O. Box 1135	60600	MI, QIUWEN		
CHICAGO, IL 60690			ART UNIT	PAPER NUMBER
			1655	
			NOTIFICATION DATE	DELIVERY MODE
			05/05/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

chicago.patents@klgates.com

	Application No.	Applicant(s)
	10/598,909	WANG ET AL.
Office Action Summary	Examiner	Art Unit
	QIUWEN MI	1655
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the	correspondence address
• •	LV IS SET TO EVRIDE 2 MONTH	(S) OD THIDTY (20) DAYS
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING IDENTIFY OF THE MORE OF T	DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be tid d will apply and will expire SIX (6) MONTHS fron the, cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
 1) Responsive to communication(s) filed on 14. 2a) This action is FINAL. 2b) Th 3) Since this application is in condition for allowed closed in accordance with the practice under 	is action is non-final. ance except for formal matters, pr	
Disposition of Claims		
· <u> </u>	un.	
4) Claim(s) 1-21 is/are pending in the applicatio 4a) Of the above claim(s) 9-11 and 15-19 is/a 5) Claim(s) is/are allowed. 6) Claim(s) 1-8, 12-14, 20, and 21 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	are withdrawn from consideration.	
Application Papers		
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) acceptable and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examination.	ecepted or b) objected to by the e drawing(s) be held in abeyance. Se ection is required if the drawing(s) is ob	ee 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Bureat * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s)		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 	4)	oate

Applicant's amendment filed on 4/14/2010 is acknowledged. Claims 1-21 are pending. Claims 9-11, and 15-19 are withdrawn as they are directed toward non-elected invention groups. Claims 1-8, 12-14, 20, and 21 are examined on the merits.

Any rejection that is not reiterated is hereby withdrawn.

Claim Rejections –35 USC § 112, 2nd

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 14 is newly rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 14 recites "...which is in a tablet form selected from the group consisting of a capsule, a pill, a solution, a suspension, a syrup, a dried oral supplement,, a wet oral supplement, and combinations thereof..." (lines 5-7). It is not clear how a tablet form could be selected from a capsule, a solution, a suspension, or a syrup. In addition, it is uncertain, what "which" refers to here, an oral composition or the carrier.

Therefore, the metes and bounds of claims are rendered vague and indefinite. The lack of clarity renders the claims very confusing and ambiguous since the resulting claims do not clearly set forth the metes and bounds of the patent protection desired.

Claim Rejections -35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-8, 12-14, 20, and 21 are newly rejected under 35 U.S.C. 103(a) as being unpatentable over Osanai (JP 09107880 A), in view of Edenharder et al (Edenharder et al, Isolation and characterization of structurally novel antimutagenic flavonoids from spinach (Spinacia oleracea), Journal of agricultural and food chemistry, (2001 Jun) Vol. 49, No. 6, pp. 2767-73), Faulks et al (Faulks et al, Kinetic of gastro-intestinal transit and carotenoid absorption and disposal in ileostomy volunteers fed spinach meals, Eur J Nutr (2004) 43: 15-22), and Hovari et al (Hovari et al, Examination of flavonoid content in Hungarian Vegetables, Special Publication - Royal Society of Chemistry (1999), 240(Natural Antioxidants and Anticarcinogens in Nutrition, Health and Disease), 296-298), and further in view of Imazawa et al (JP 2003164261 A).

This is a new rejection necessitated by the Applicant's amendment filed on 4/14/2010.

Osanai teaches to produce a suitably producible cow's milk (thus milk from animal origin, thus a carrier) at a low cost by using a widely used vegetable, capable of enriching iron, enhancing hematopoietic actions, further containing various vitamins or minerals blended in

Art Unit: 1655

good balance and effective against various symptoms of anemia, constipation or climacteric disturbance of women (thus a food, thus an oral composition). This cow's milk contains a vegetable and is obtained by adding about 12.5 g KOMATSU-NA [Brassica campestris (rapa groupl), about 2.5 g spinach (thus a vegetable, thus a leave), about 2.5 g total amount of mulukkiyya, parsley, water cress and beefsteak plant, 22.5 g lemon (thus a fruit) and 2.5 g reducing palatinose with about 150cc cow's milk. Furthermore, the cow's milk containing the vegetable is prepared by placing about 12.5 g KOMATSU-NA, about 2.5 g spinach and about 2.5 g total amount of mulukkiyya, parsley, water cress and beefsteak plant based on 10 cc cow's milk in a mixer, pulverizing (thus milling in milk) and mixing the ingredients, adding about 22.5 g lemon and about 2.5 g reducing palatinose thereto and further adding cow's milk thereto so as to make the sum total to 200 cc (thus a liquid, thus a miscible primary composition) (see Abstract). Osanai teaches a method of producing cowsmilk containing vegetables characterized as placing approximately 15 g of carrots, approximately 22.2 g of lemon, and approximately 2 g of reduced palatinose in 100 cc of cowsmilk in a mixer, pulverizing it and mixing it, straining it in a strainer twice (thus excluding insoluble fibers), and then adding cowsmilk to this so that it reaches 200 cc (page 5, claim 6 of the full translation).

As evidenced by Edenharder et al, spinach contains carotenoids (thus a hydrophilic bioactive component) and flavonoids such as flavonol and flavanone (thus a lipophilic bioactive component) (see Abstract), therefore, the milk product of Osanai that contains spinach contains at least essential lipophilic and hydrophilic bioactive components consisting of vegetable etc.

As further evidenced by Faulks et al, spinach contains beta-carotene (thus a hydrophilic bioactive component) (see Abstract).

Art Unit: 1655

As also evidenced by Hovari et al, the highest quercetin concentration could be detected in different types of onion (67.1-171.3 mg/kg) and in spinach (page 296, last paragraph) (thus the limitation of claim 21 is met).

Osanai does not teach the insoluble fibers are removed by centrifuging the carrier after milling.

Imazawa et al teach a method for manufacturing extract and/or squeezed liquid, involves grinding raw material, homogenizing, dispersing in medium at less than 60 degrees C, extracting, emulsifying and removing dregs and/or squeezed dregs. The raw materials are selected from coffee, green tea (thus containing lipophilic and hydrophilic bioactive components), black tea, oolong tea, herb tea, wild grass tea, chinese medicine tea, cocoa, vanilla, fruits or vegetables. The dispersion medium has low temperature of less than 50 degrees C preferably -5-50 degrees C. The dispersion medium is water, cow's milk (thus a carrier) dairy products, liquid of saccharides, sugar alcohol, mineral, vitamin, stabilizer, emulsifier and bacteriostatic. The mixture is homogenized using homogenous machine (thus milling the material) equipped with pump, which pours dispersion liquid at high voltage and high speed continuously in the homogenous valve (see Abstract). Imazawa et al also teach in accordance with a conventional method, separation removal of extraction slag and/or the juice slag is carried out using a liquid cyclone, a clarifier, centrifugal separation (thus insoluble fibers are removed by centrifuging the carrier after milling), filatration, precision filtration, decantation etc [0027] (see machine translation attached). Imazawa et al teach the method is suitable for the continuous mass production and extremely effective from the viewpoint of the effective utilization of food resources and the economic merit compared with conventional extraction/squeezing method (see Abstract).

Application/Control Number: 10/598,909

Art Unit: 1655

First of all, the MPEP states the following: "[E]ven though product-by-process claims are limited by and defined by the process determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process...The product-by-process claim was rejected because the end product, in both the prior art and the allowed process, ends up containing metal carboxylate. The fact that the metal carboxylate is not directly added, but is instead produced in-situ does not change the end product" (see MPEP 2113 [R-1]). Therefore, although Osanai teaches using strainers twice, instead of using claimed centrifuging process, insoluble fibers are being removed either way, and the final products are not materially different. Even if there is subtle difference between using strainers and centrifuge machine, it would have been *prima facie* obvious for one of ordinary skill in the art at the time the invention was made to use the claimed centrifuging step since Imazawa et al teach removing extraction slag by a liquid cyclone, a clarifier, centrifugal separation, filatration, precision filtration, or decantation. It is evidenced by Imazawa et al that centrifuging step is well known in the art to remove extraction slags, and it is used interchangeably in the art with other methods such as filtration or straining. Since Imazawa et al teach using dispersion medium cowsmilk to grind raw plant material for extraction, and since Imazawa et al teach the method is extremely effective in utilization of food resources and has economic merit compared with conventional extraction/squeezing method, one of the ordinary skills in the art would have been motivated to combine the teachings of the references together.

Page 6

From the teachings of the references, it is apparent that one of the ordinary skills in the art would have had a reasonable expectation of success in producing the claimed invention.

Thus, the invention as a whole is *prima facie* obvious over the references, especially in the absence of evidence to the contrary.

Conclusion

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Qiuwen Mi whose telephone number is 571-272-5984. The examiner can normally be reached on 8 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terry McKelvey can be reached on 571-272-0775. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Qiuwen Mi/

Application/Control Number: 10/598,909

Page 8

Art Unit: 1655

Examiner, Art Unit 1655